

Work Order ID 127136

Tuesday, December 09, 2014 7:20:08 AM

127136

Ship JAN 18

Page 1

Item ID: D5134-041 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: Damper Support Assembly, LH
 Start Date: 12/9/2014 Start Qty: 4.00 *4* Cust Item ID:
 Required Date: 12/9/2014 Req'd Qty: 4.00 *4* Customer:
 Reference:

Approvals: Process Plan: MCS Date: 14-12-09 Tooling: _____ Date: _____ Run Start *NR1*
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr								
D5134	A								
100		0.00				4	0		DAS 20 9-89 15-03-26
100									
Bandsaw	Memo	0.00							
Jeaspa Bandsaw	CUT BLANK TO 5.125" LONG								
110		0.00				4	0		DAS 20 9-89 15-03-27
110									
HAAS 1	Memo	0.00							
HAAS CNC vertical machine #1	Mill as per Dwg and folio FB342								
	DWG REV: <u>A</u>								
	FOLIO REV: <u>A</u>								
	DEBURR								DAS 44 9-89 15/03/29

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Page 2

Accept

N900040100

Setup Start *NS1*

Stop *NS2*

Start Date: 12/9/2014 **Start Qty:** 4.00 ***4***

Cust Item ID:

Required Date: 12/9/2014 **Req'd Qty:** 4.00 ***1***

Customer:

Reference:

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

[illegible]

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

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Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence
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Page 4

Accept

N900040100

Setup Start *NS1*

Stop *NS2*

Start Date: 12/9/2014 **Start Qty:** 4.00 ***4***

Cust Item ID:

Required Date: 12/9/2014 **Req'd Qty:** 4.00 ***1***

Customer:

Reference:

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____
QC: _____ **Date:** _____ **SPC (Y/N):** _____ **Date:** _____

Run	Start	*NR1*
	Stop	*NR2*

[illegible]

DQA: _____ Date: _____



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Work Order ID 127136

Tuesday, December 09, 2014 7:20:08 AM

127136

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Item ID: D5134-041 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Damper Support Assembly, LH
Start Date: 12/9/2014 Start Qty: 4.00 ***4*** Cust Item ID:
Required Date: 12/9/2014 Req'd Qty: 4.00 ***4*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
190	QC21- Final Inspection - Work Order Release	0.00							
190									
QC	Memo	0.00							
Quality Control									

MLJ 1504-02

D15.4-2

DQA: _____ Date: _____



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Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

Tuesday, December 09, 2014 7:20:13 AM

Page 1

Work Order ID: 127136

127136

Parent Item: D5134-041

D5134-041

Parent Item Name: Damper Support Assembly, LH

Start Date: 12/9/2014

Required Date: 12/9/2014

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP REV:A NEW ISSUE 14-09-09 JLM VERIFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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NAS77C6-021

Purchased

No

Each

42.0000

8

NAS77C6-021

BUSHING

MAR 31 2015

Location

Loc Qty

Loc Code

ST260

131470

42

2

M130278

32

M131067

10

6

M7075T6B4.000X03.00

Purchased

No

f

12.3750

2

M7075T6B4 000X03 000

7075-T6 BAR 4.000' X 3.000"

**** GRAIN ALLOY 3" ****

1.750'

DAS
20
9-89

15-03-26

Location

Loc Qty

Loc Code

MAT006

12.375

M130312

3

M130938

9.375

131225

1.750'

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

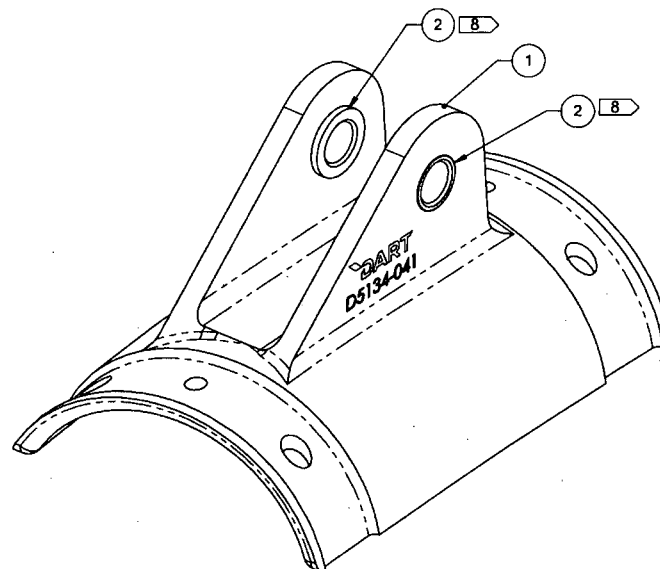
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FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other _____ _____ _____ _____
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ITEM	QTY -041	P/N	DESCRIPTION
	X	D5134-041	DAMPER BRACKET ASSY, LH
1	1	D5134-1	DAMPER SUPPORT, LH
2	2	NAS77C6-021	BUSHING



D5134-041 DAMPER SUPPORT ASSY, LH

NOTES:

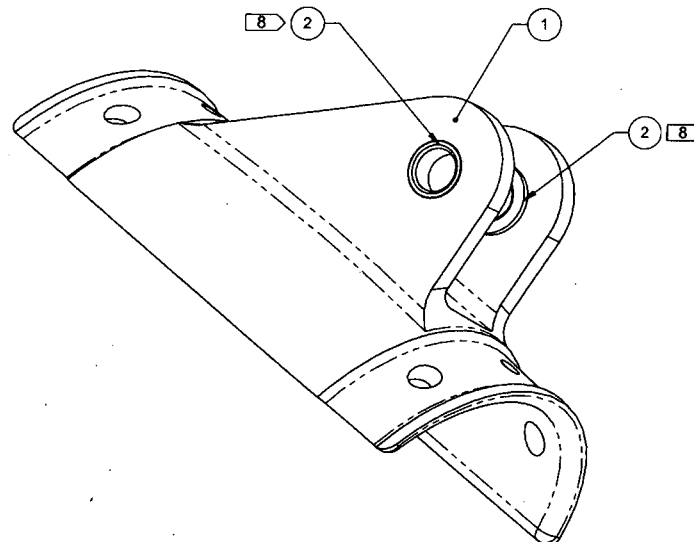
- 1) MATERIAL: N/A
- 2) FINISH: PRIME AND PAINT WHITE PER DART QSI 005 4.2
MASK OFF INNER SURFACE OF BUSHING PRIOR TO APPLICATION OF PRIME/PAINT
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 0.41 lbs
- 8) NAS77C6-021 BUSHINGS ARE PRESS FIT INTO D5134-1 DAMPER SUPPORT, IN ORIENTATION SHOWN

SPONSOR
OF
RESEARCH
UNCONTROLLED
SUBJECT OF RESEARCH
WITHIN THE
RESEARCH
NO 127.136 M.C.S
14-12-09

RELEASED
2014-10-08
mp

APPROVED	A	NEW ISSUE	AP	14.09.02
	REV.	DESCRIPTION	BY	DATE
	DESIGN	AP	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
	DRAWN	AP		
	CHECKED	ML	DRAWING NO.	REV. A
	MFG. APPR.	RQ	D5134	SHEET 1 OF 4
	APPROVED	MP	TITLE	SCALE
	DE APPR.	DS	DAMPER SUPPORT ASSY	NTS
	DATE	14.09.02	COPYRIGHT © 2014 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

ITEM	QTY -042	P/N	DESCRIPTION
	X	D5134-042	DAMPER SUPPORT ASSY, RH
1	1	D5134-2	DAMPER SUPPORT, RH
2	2	NAS77C6-021	BUSHING



D5134-042 DAMPER SUPPORT ASSY, RH

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: PRIME AND PAINT WHITE PER DART QSI 005 4.2
MASK OFF INNER SURFACE OF BUSHING PRIOR TO APPLICATION OF PRIME/PAINT
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 0.42 lbs
- 8) NAS77C6-021 BUSHINGS ARE PRESS FIT INTO D5134-2 DAMPER SUPPORT, IN ORIENTATION SHOWN

APPROVED

DESIGN	AP	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AP		
CHECKED	ML	DRAWING NO.	REV. A
MFG. APPR.	RQ	D5134	SHEET 2 OF 4
APPROVED	MP	TITLE	SCALE
DE APPR.	DS	DAMPER SUPPORT ASSY	NTS
DATE	14.09.02	COPYRIGHT © 2014 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

RELEASED
2014-10-08
mo

9 Ø0.188 TOOLING HOLE
AS REQUIRED, 2 PL

9 Ø0.257 TOOLING HOLE
AS REQUIRED, 4 PL

0.893
REF

0.36
TYP

0.632
REF

Ø0.500^{+0.000}_{-0.001}
THRU

R0.25
THIS EDGE ONLY

0.36
4 PL

0.100
2 PL

R0.063
4 PL

DART
D5134-041

GRAIN
DIRECTION

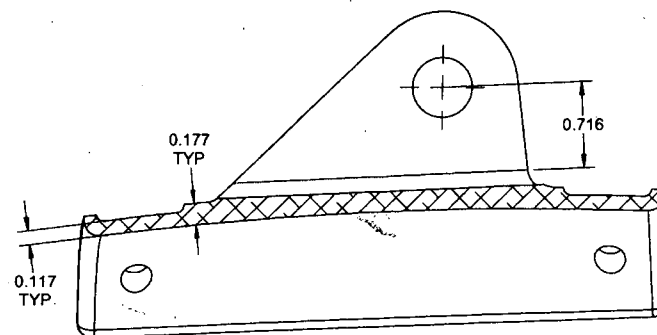
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2 PL

4.671
REF

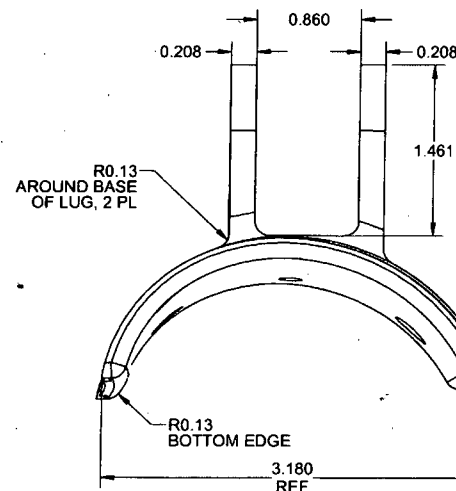
D5134-1 DAMPER SUPPORT, LH

NOTES:

- 1) MATERIAL: ALUMINUM 7075-T6 (OR T651 / T6510 / T6511 / T62) ALUMINUM BAR
PER AMS-QQ-A-225/9 (OR AMS 4122 / 4123 / 4186 / 4187) OR
PER AMS-QQ-A-200/11, REF DART SPEC M7075T6B
- 2) FINISH: CHEMICAL CONVERSION COAT PER QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART LOGO AND P/N "D5134-041" IN AREA SHOWN
USING 0.125 HIGH X 0.010-0.020 DEEP LETTERING PER DART QSI 044 6.3,
IDENTIFY WITH DART B/N PER DART QSI 044 6.1
- 7) WEIGHT: 0.38 lbs
- 8) ALL NON-DIMENSIONED FEATURES DEFINED PER DRAWING FILE "D5134-1-REVA.SLDPRT"
- 9) POSITION TOOLING HOLES AS REQUIRED WHILE MAINTAINING MINIMUM 2D EDGE DISTANCE AND 4D PITCH BETWEEN HOLES



SECTION A-A

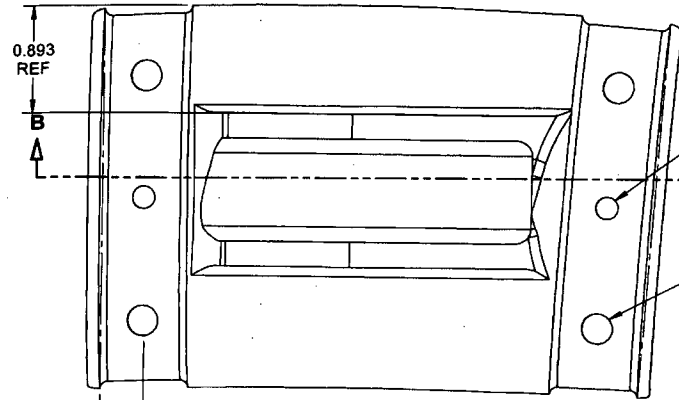


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2014-10-08

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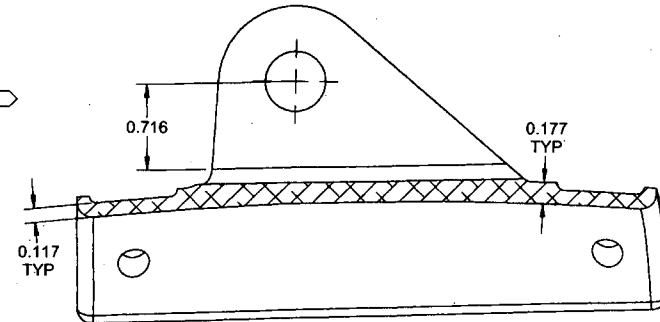
DESIGN	AP
DRAWN	AP
CHECKED	ML
MFG. APPR.	RQ
APPROVED	MP
DE APPR.	DS
DATE	14.09.02

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO. D5134	REV. A
TITLE DAMPER SUPPORT ASSY	SHEET 3 OF 4
SCALE NTS	
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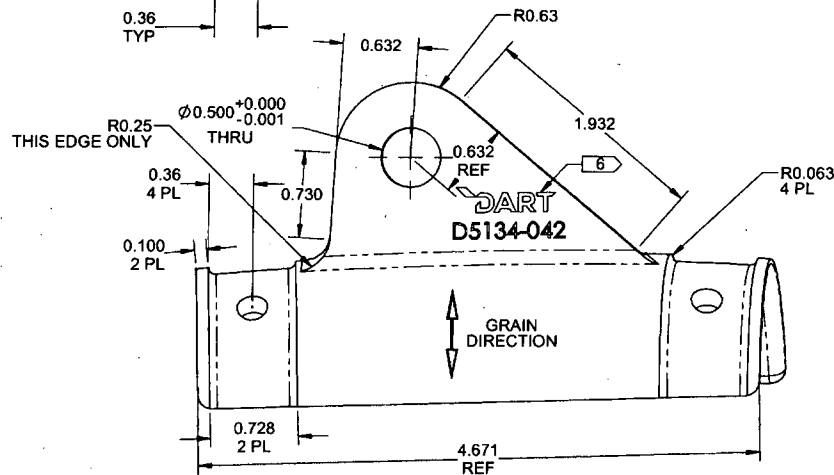


Ø0.188 TOOLING HOLE
AS REQUIRED, 2PL

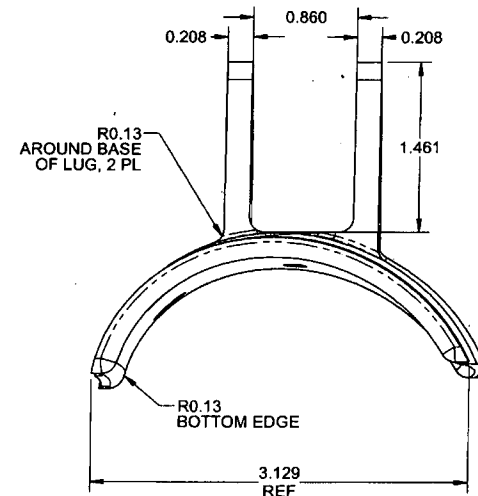
Ø0.257 TOOLING HOLE
AS REQUIRED, 4PL



SECTION B-B



D5134-2 DAMPER SUPPORT, RH



RELEASED
2014-10-08

NOTES:

- 1) MATERIAL: ALUMINUM 7075-T6 (OR T651 / T6510 / T6511 / T62) ALUMINUM BAR
PER AMS-QQ-A-225/9 (OR AMS 4122 / 4123 / 4186 / 4187) OR
PER AMS-QQ-A-200/1, REF DART SPEC M7075T6B
- 2) FINISH: CHEMICAL CONVERSION COAT PER QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART LOGO AND P/N "D5134-042" IN AREA SHOWN
USING 0.125 HIGH X 0.010-0.020 DEEP LETTERING PER DART QSI 044 6.3,
IDENTIFY WITH DART B/N PER DART QSI 044 6.1
- 7) WEIGHT: 0.38 lbs
- 8) ALL NON-DIMENSIONED FEATURES DEFINED PER DRAWING FILE "D5134-2-REVA.SLDPRT"
- 9) POSITION TOOLING HOLES AS REQUIRED WHILE MAINTAINING MINIMUM 2D EDGE DISTANCE AND 4D PITCH BETWEEN HOLES

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DESIGN	AP	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AP		
CHECKED	ML	DRAWING NO.	REV. A
MFG. APPR.	RQ	D5134	SHEET 4 OF 4
APPROVED	MP	TITLE	SCALE
DE APPR.	DS	DAMPER SUPPORT ASSY	NTS
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